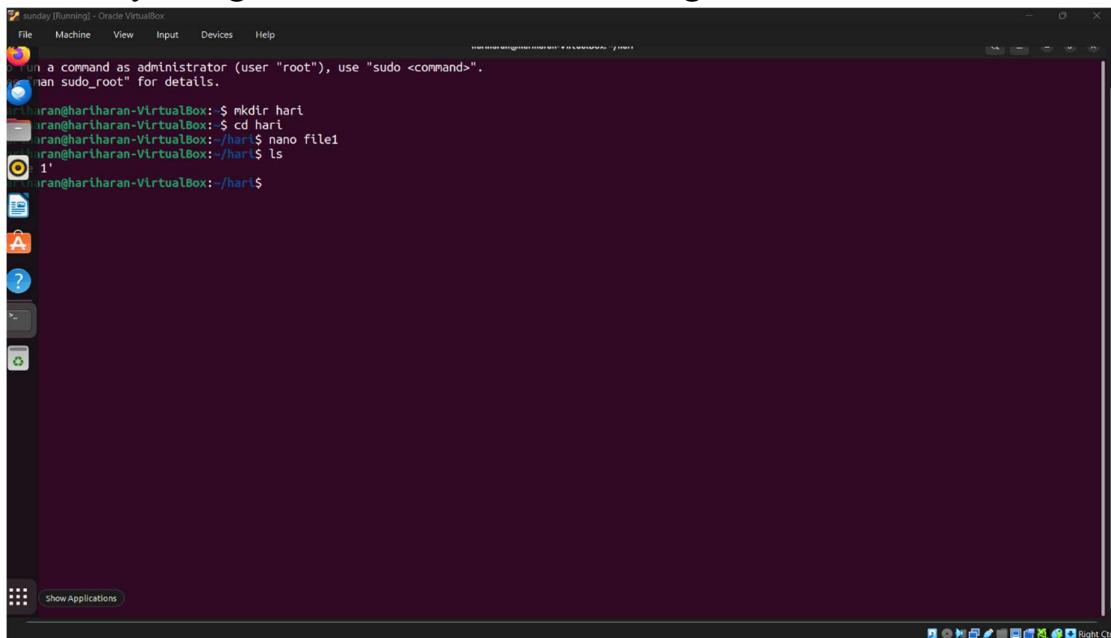


## LINUX USER NAVIGATION COMMANDS

1. Make Directory with the help of command “mkdir” and change directory using “cd” and create a file using the command “nano”.

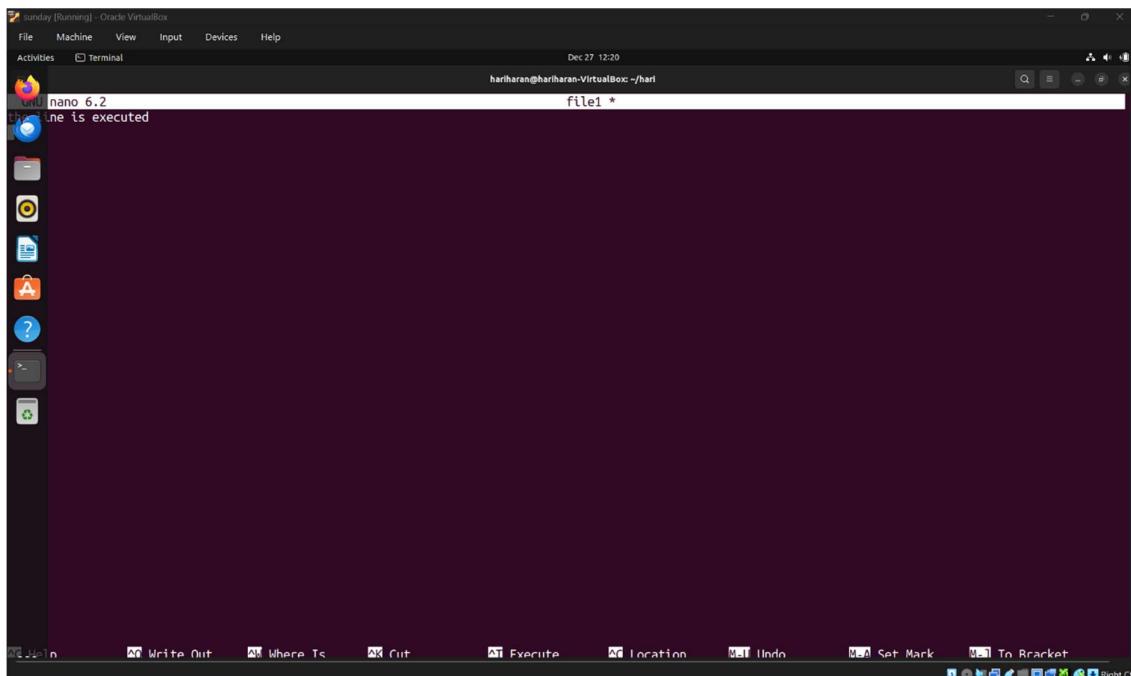


A screenshot of a Linux desktop environment, likely Ubuntu, running in Oracle VirtualBox. The desktop has a dark theme with a dock at the bottom containing icons for Dash, Home, Applications, and others. A terminal window is open in the top panel, showing the following command history:

```
sunday [Running] - Oracle VirtualBox
File Machine View Input Devices Help
Run a command as administrator (user "root"), use "sudo <command>".
Type "man sudo_root" for details.

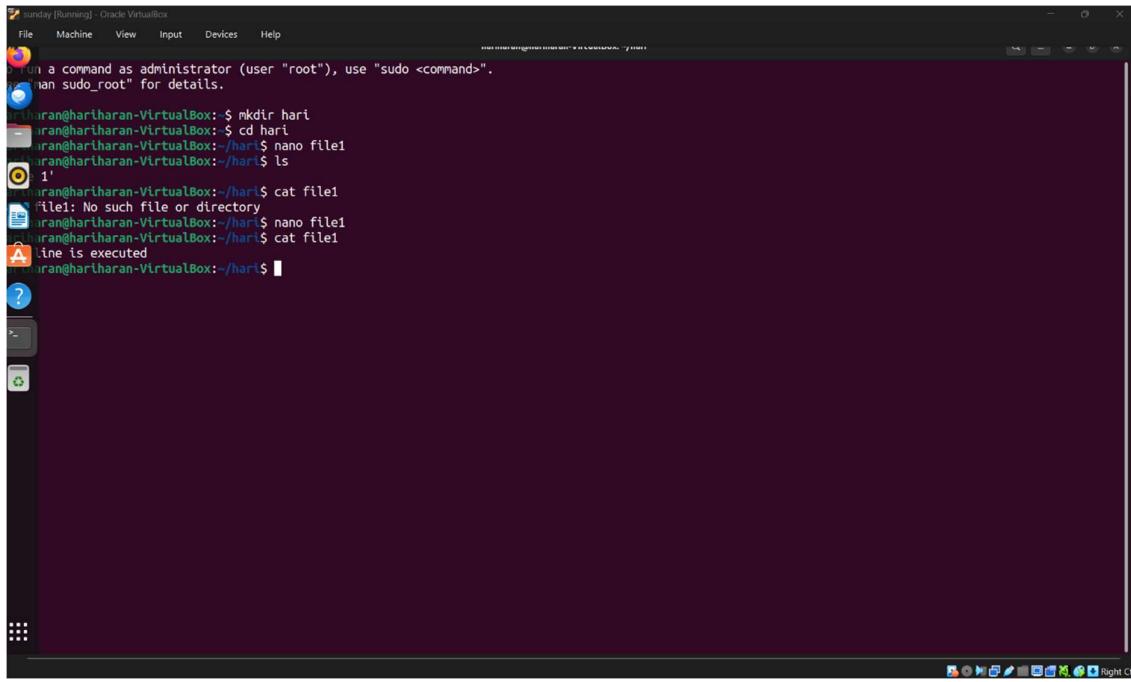
hariharan@hariharan-VirtualBox:~$ mkdir hari
hariharan@hariharan-VirtualBox:~$ cd hari
hariharan@hariharan-VirtualBox:/hari$ nano file1
hariharan@hariharan-VirtualBox:/hari$ ls
1
hariharan@hariharan-VirtualBox:/hari$
```

Using “nano” command we create any type of file and save it.



A screenshot of a Linux desktop environment showing a terminal window and a nano editor window. The terminal window shows the command “nano 6.2” was run. The nano editor window is open with the file “file1” and contains the text “line is executed”. The desktop interface includes a dock at the bottom with various application icons.

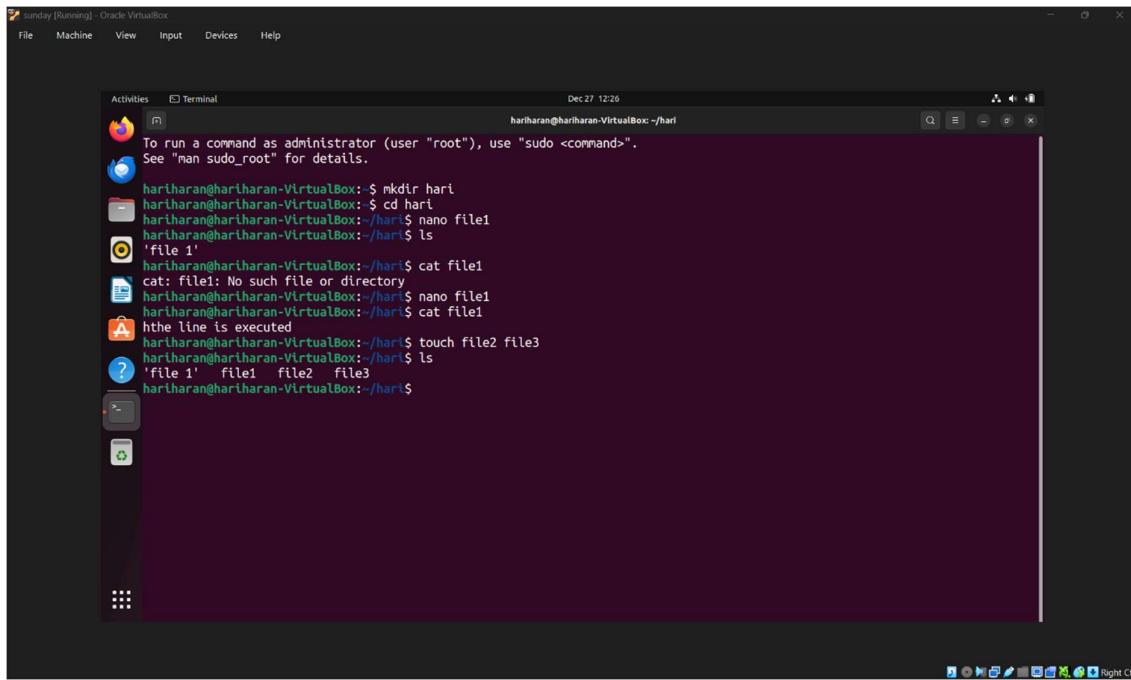
Using “cat” command to view the inside the file.



```
sunday [Running] - Oracle VirtualBox
File Machine View Input Devices Help
Run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

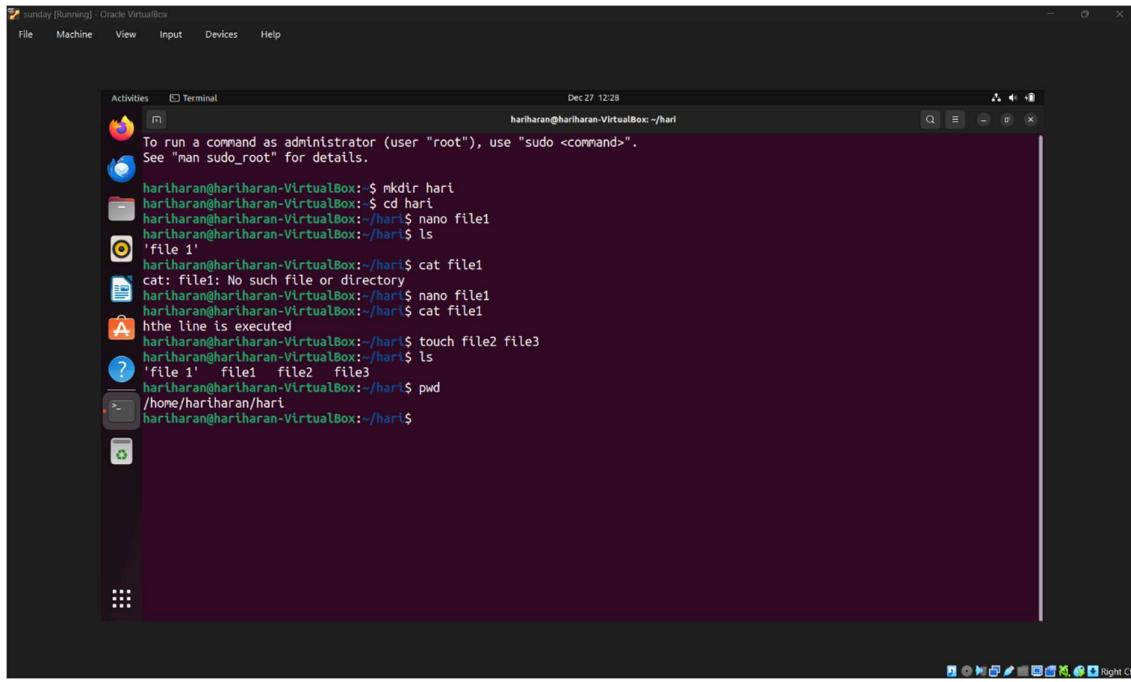
hariharan@hariharan-VirtualBox: ~$ mkdir hari
hariharan@hariharan-VirtualBox: ~$ cd hari
hariharan@hariharan-VirtualBox: ~/hari$ nano file1
hariharan@hariharan-VirtualBox: ~/hari$ ls
'file 1'
hariharan@hariharan-VirtualBox: ~/hari$ cat file1
file1: No such file or directory
hariharan@hariharan-VirtualBox: ~/hari$ nano file1
hariharan@hariharan-VirtualBox: ~/hari$ cat file1
A line is executed
hariharan@hariharan-VirtualBox: ~/hari$
```

Using “touch” command to create a file.



```
sunday [Running] - Oracle VirtualBox
File Machine View Input Devices Help
Activities Terminal Dec 27 12:26
hariharan@hariharan-VirtualBox: ~$ mkdir hari
hariharan@hariharan-VirtualBox: ~$ cd hari
hariharan@hariharan-VirtualBox: ~/hari$ nano file1
hariharan@hariharan-VirtualBox: ~/hari$ ls
'file 1'
hariharan@hariharan-VirtualBox: ~/hari$ cat file1
cat: file1: No such file or directory
hariharan@hariharan-VirtualBox: ~/hari$ nano file1
hariharan@hariharan-VirtualBox: ~/hari$ cat file1
A line is executed
hariharan@hariharan-VirtualBox: ~/hari$ touch file2 file3
hariharan@hariharan-VirtualBox: ~/hari$ ls
'file 1' file1 file2 file3
hariharan@hariharan-VirtualBox: ~/hari$
```

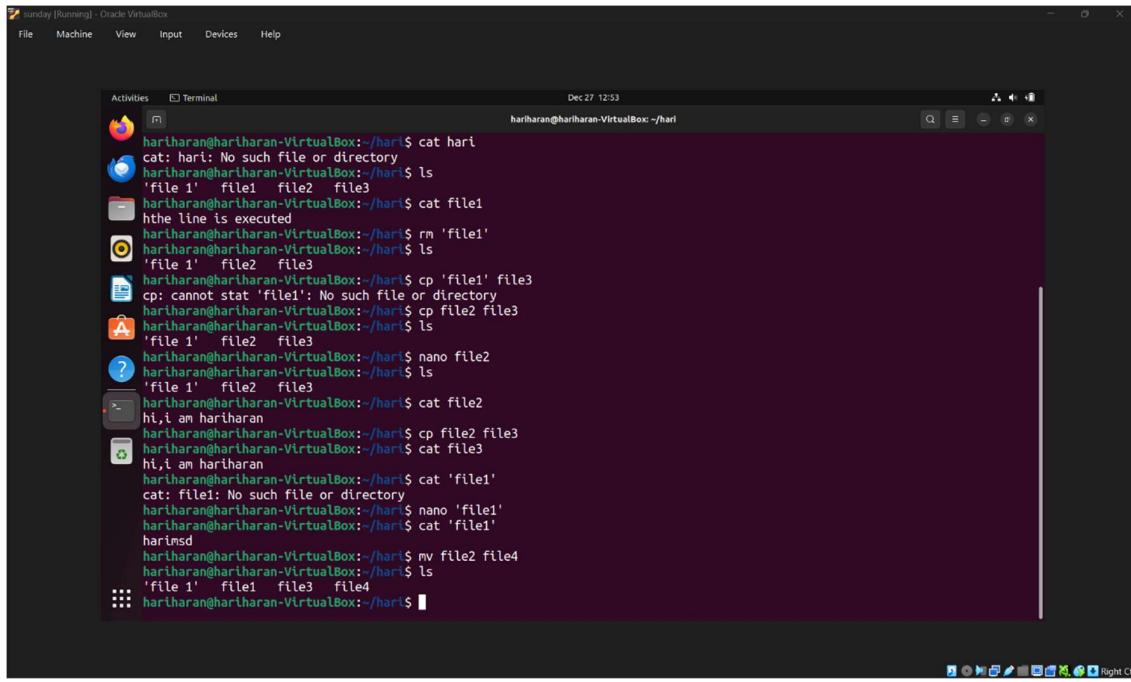
Using “pwd” command print working directory.



A screenshot of a Linux desktop environment, likely Ubuntu, running in Oracle VM VirtualBox. The desktop has a dark theme with a dock at the bottom containing icons for various applications. In the center, there is a terminal window titled "Activities Terminal". The terminal shows a command-line session:

```
hariharan@hariharan-VirtualBox: ~/hari$ mkdir hari  
hariharan@hariharan-VirtualBox: ~/hari$ cd hari  
hariharan@hariharan-VirtualBox: ~/hari$ nano file1  
hariharan@hariharan-VirtualBox: ~/hari$ ls  
'file 1'  
hariharan@hariharan-VirtualBox: ~/hari$ cat file1  
cat: file1: No such file or directory  
hariharan@hariharan-VirtualBox: ~/hari$ nano file1  
hariharan@hariharan-VirtualBox: ~/hari$ cat file1  
htthe line is executed  
hariharan@hariharan-VirtualBox: ~/hari$ touch file2 file3  
hariharan@hariharan-VirtualBox: ~/hari$ ls  
'file 1'  file1  file2  file3  
hariharan@hariharan-VirtualBox: ~/hari$ pwd  
/home/hariharan/hari  
hariharan@hariharan-VirtualBox: ~/hari$
```

Using “cp” command to copy one file to another file and using “mv” command to move one file to another file.



A screenshot of a Linux desktop environment, likely Ubuntu, running in Oracle VM VirtualBox. The desktop has a dark theme with a dock at the bottom containing icons for various applications. In the center, there is a terminal window titled "Activities Terminal". The terminal shows a command-line session:

```
hariharan@hariharan-VirtualBox: ~/hari$ cat hari  
cat: hari: No such file or directory  
hariharan@hariharan-VirtualBox: ~/hari$ ls  
'file 1'  file1  file2  file3  
hariharan@hariharan-VirtualBox: ~/hari$ cat file1  
htthe line is executed  
hariharan@hariharan-VirtualBox: ~/hari$ rm 'file1'  
hariharan@hariharan-VirtualBox: ~/hari$ ls  
'file 1'  file2  file3  
hariharan@hariharan-VirtualBox: ~/hari$ cp 'file1' file3  
cp: cannot stat 'file1': No such file or directory  
hariharan@hariharan-VirtualBox: ~/hari$ cp file2 file3  
hariharan@hariharan-VirtualBox: ~/hari$ ls  
'file 1'  file2  file3  
hariharan@hariharan-VirtualBox: ~/hari$ nano file2  
hariharan@hariharan-VirtualBox: ~/hari$ ls  
'file 1'  file2  file3  
hariharan@hariharan-VirtualBox: ~/hari$ cat file2  
hi,i am hariharan  
hariharan@hariharan-VirtualBox: ~/hari$ cp file2 file3  
hariharan@hariharan-VirtualBox: ~/hari$ cat file3  
hi,t am hartharan  
hariharan@hariharan-VirtualBox: ~/hari$ cat 'file1'  
cat: file1: No such file or directory  
hariharan@hariharan-VirtualBox: ~/hari$ nano 'file1'  
hariharan@hariharan-VirtualBox: ~/hari$ cat 'file1'  
hari'msd  
hariharan@hariharan-VirtualBox: ~/hari$ mv file2 file4  
hariharan@hariharan-VirtualBox: ~/hari$ ls  
'file 1'  file1  file3  file4  
hariharan@hariharan-VirtualBox: ~/hari$
```

Using “rm -rv” to remove file and directory.

```
Activities Terminal
hariharan@hariharan-VirtualBox:~$ mkdir hari
mkdir: cannot create directory 'hari': Permission denied
hariharan@hariharan-VirtualBox:~$ cd hari
cd: haran: No such file or directory
hariharan@hariharan-VirtualBox:~$ ls
hariharan@hariharan-VirtualBox:~$ cd hariharan
hariharan@hariharan-VirtualBox:~$ ls
hariharan@hariharan-VirtualBox:~$ cat hari
cat: hari: Is a directory
hariharan@hariharan-VirtualBox:~$ cd hari
hariharan@hariharan-VirtualBox:~/hari$ cd ..
hariharan@hariharan-VirtualBox:~$ rm -r hari
hariharan@hariharan-VirtualBox:~$ ls
hariharan@hariharan-VirtualBox:~$ mkdir hari
hariharan@hariharan-VirtualBox:~$ cd hari
hariharan@hariharan-VirtualBox:~/hari$ touch file1 file2 file3
hariharan@hariharan-VirtualBox:~/hari$ ls
file1 file2 file3
hariharan@hariharan-VirtualBox:~/hari$ rm -r hari
rm: cannot remove 'hari': No such file or directory
hariharan@hariharan-VirtualBox:~/hari$ cd ..
hariharan@hariharan-VirtualBox:~$ rm -rv hari
removed 'hari/file2'
removed 'hari/file3'
removed 'hari/file1'
removed directory 'hari'
hariharan@hariharan-VirtualBox:~$
```

Using “`sudo su`” command to add user and “`ls`” command to list the user.

```
Activities Terminal
root@hariharan-VirtualBox:~$ adduser ubuntu
Adding user `ubuntu' ...
Adding new group `ubuntu' (1001)
Adding new user `ubuntu' (1001) with group `ubuntu' ...
Creating home directory `/home/ubuntu' ...
Copying files from `/etc/skel' ...
New password:
Retype new password:
passwd: password updated successfully
Changing the user information for ubuntu
Enter the new value, or press ENTER for the default
  Full Name []: hariharan
  Room Number []:
  Work Phone []: 123456789
  Home Phone []: 987654321
  Other []: 12345
Is the information correct? [Y/n] y
root@hariharan-VirtualBox:~$ ls
hariharan  ubuntu
root@hariharan-VirtualBox:~$
```

History of this using command.

sunday [Running] - Oracle VirtualBox

File Machine View Input Devices Help

Activities Terminal

hariharan@hariharan-VirtualBox: /bin\$ history

```
1 pwd
2 touch file.txt
3 ls
4 cat file.txt
5 vi file.txt
6 ls
7 vi videos
8 mkdirr
9 ls
10 nano file.txt
11 mkdirr hari
12 cd hari
13 nano file1
14 ls
15 cat file1
16 nano file1
17 cat file1
18 touch file2 file3
19 ls
20 pwd
21 cd ..
22 ls
23 cd ..
24 ls
25 cat bin
26 cd bin
27 ls
28 clear
29 history
```

hariharan@hariharan-VirtualBox: /bin\$